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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/001,289	11/01/2001	Michael Rys	MSFT-0766/191575.1	2147

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EXAMINER

RAYYAN, SUSAN F

ART UNIT	PAPER NUMBER
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2177

DATE MAILED: 08/24/2004

6

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/001,289

Applicant(s)

RYS ET AL.

Examiner

Susan F. Rayyan

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 November 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-32 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 November 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 5.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. Claims 1-32 are pending.
2. IDS filed on January 28, 2002 has been considered.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-32 are rejected under 35 U.S.C. 102(e) as being anticipated by Lee et al. (US 2002/0169788).

As per independent claims 1,13 Lee anticipates:

identifying a first node within the hierarchical data corresponding to a first column in the relational table and second node associated with the first node corresponding to data to be stored in a row of the table corresponding to the first column at paragraph 96;
creating a record in a first buffer associated with the first relational table at paragraph 108;
and copying the record from the first buffer to the first relational table at paragraph 110, lines 4-6.

Lee teaches identifying a first node within the hierarchical data corresponding to a first column in the relational table and second node associated with the first node

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corresponding to data to be stored in a row of the table corresponding to the first column, creating a record in a first buffer associated with the first relational table and copying the record from the first buffer to the first relational table at paragraph 96, 108, 110.

As per claim 2 same as claim arguments above and Lee anticipates:
wherein the relational table is part of a relational database at paragraph 99, lines 5-7.

As per claim 3 same as claim arguments above and Lee anticipates:
wherein the hierarchical data is XML data at paragraph 96.

As per claim 4 same as claim arguments above and Lee anticipates:
wherein the hierarchical data is identified to correspond to a column in the relational table by way of a hierarchical schema at paragraph 54, 96.

As per claim 5 same as claim arguments above and Lee anticipates:
wherein the buffer associated with first table is created after determining that the parent node of the first node within the hierarchical data is associated with the first relational table at paragraph 54, 110.

As per claim 6 same as claim arguments above and Lee anticipates:
further comprising a second relational table at paragraph 105.

As per claim 7 same as claim arguments above and Lee anticipates:
further comprising creating a second buffer corresponding to the second relational table when a third node within the hierarchal data corresponds to a second relational table at paragraph 54, 110.

As per claim 8 same as claim arguments above and Lee anticipates:
creating a record in the second buffer associated with the second relational table when
a child node of the third node indicates that the hierarchical data comprises data
associated with a column in the second relational table at paragraphs 54, 108;
and copying the record from the second buffer to the second relational table at
paragraph 110.

As per claim 9 same as claim arguments above and Lee anticipates:
further comprising copying the record from the first buffer to the first relational table
substantially in parallel to copying the record from the second buffer to the second
relational table at paragraph 110.

As per claim 10 same as claim arguments above and Lee anticipates:
wherein the first relational table has a relational relationship with the second relational
table paragraph 83.

As per claim 11 same as claim arguments above and Lee anticipates:
wherein the first buffer comprises a disk file at paragraph 110.

As per claim 12 same as claim arguments above and Lee anticipates:
wherein the hierarchical data comprises an XML document at paragraph 96.

As per independent claims 14,24-25 Lee anticipates:
receiving a schema describing a relationship of nodes in the hierarchical data to at least one column in each of the at least two relational tables, mapping the hierarchical data based on the schema and creating records from the hierarchical data from nodes associated identified as data to be stored in the at least one column in each of the at least two relational tables, and streaming the records into the at least two relational tables at paragraph 54-55, 83, and 99.

Lee teaches receiving a schema describing a relationship of nodes in the hierarchical data to at least one column in each of the at least two relational tables, mapping the hierarchical data based on the schema and creating records from the hierarchical data from nodes associated identified as data to be stored in the at least one column in each of the at least two relational tables and streaming the records into the at least two relational tables at paragraph 54-55, 83, and 99.

As per claims 15-16, 26-27 same as claim arguments above and Lee anticipates:
further comprising creating a buffer for each of the at least two relational tables wherein the records are stored before being streamed into the at least two relational tables at paragraph 110, lines 4-6.

As per claim 17 same as claim arguments above and Lee anticipates:
wherein the hierarchical data is not size constrained at paragraph 83.

As per claims 18,28 same as claim arguments above and Lee anticipates:
wherein the hierarchical data comprises an XML document at paragraph 96.

As per claims 19,29 same as claim arguments above and Lee anticipates:
wherein the schema comprises an XML schema at paragraph 83.

As per claims 20,30 same as claim arguments above and Lee anticipates:
wherein the at least two tables have a relational relationship at paragraph 83, 87.

As per claims 21,31 same as claim arguments above and Lee anticipates:
wherein one of the at least one columns is a key field in one of the at least two tables
and foreign key in the other one of the at least two tables, wherein the method further
comprises populating records associated with the at least two tables with the data
associates with the one of the at least one columns at paragraph 54, 99.

As per claims 22,32 same as claim arguments above and Lee anticipates:
further comprising streaming the record into the at least two relational tables
substantially in parallel at paragraph 110.

As per claim 23 same as claim arguments above and Lee anticipates:
wherein the schema is received by way of a network connection at paragraph 83.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan Rayyan whose telephone number is (703) 305-0311. The examiner can normally be reached M-F: 8am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on 703-305-9790. The fax phone numbers for

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the organization where this application or proceeding is assigned are (703) 872-9306 for Official communications, (703) 746-7238 for After Final communications and (703) 746-7240 for Status inquiries and draft communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Susan Rayyan



August 20, 2004

